

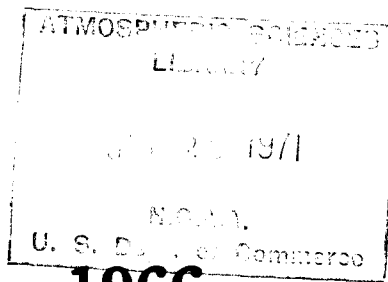


UNITED ARAB REPUBLIC

MONTHLY WEATHER REPORT

VOLUME 9

NUMBER 5



MAY, 1966

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METEOROLOGICAL DEPARTMENT
CAIRO

National Oceanic and Atmospheric Administration

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PUBLICATIONS OF THE METEOROLOGICAL DEPARTMENT OF THE UNITED ARAB REPUBLIC—CAIRO

In fulfilment of its duties the U.A.R. Meteorological Department issues several reports and publications on weather, climate and agrometeorology. The principal publications are described on this page.

Orders for publications should be addressed to :

"The Director General, Meteorological Department, Kubri-el-Qubbeh — CAIRO".

THE DAILY WEATHER REPORT

This report is issued daily by the Meteorological Department since the year 1901. It includes surface and upper air observations carried out by the relevant networks of the Republic at the principal hours of observations.

As from January 1968 this report was revised to include a condensed representative selection of surface and upper air observations besides the 1200 U.T. surface & 500 mb charts.

THE MONTHLY WEATHER REPORT

First issued in 1909, the Monthly Weather Report served to give a brief summary of the weather conditions that prevailed over Egypt during the month, with a table showing the mean values for few meteorological elements and their deviations from the normal values. From 1954 to 1957 this report was in a rapid state of development and extension resulting into a voluminous report on January 1958 giving surface, upper air, and agro-meteorological data for U.A.R.

As from January 1964, the Monthly Weather Report was pressed to give climatological data for a representative selection of synoptic stations.

THE AGRO-METEOROLOGICAL ABRIDGED MONTHLY REPORT

Gives a review of weather experienced in the agro-meteorological stations of the U.A.R. as well as monthly values of certain elements.

THE ANNUAL REPORT

This report gives annual values and statistics for the various meteorological elements, together with a summary of the weather conditions that prevailed during all months of the year.

CLIMATOLOGICAL NORMALS FOR EGYPT

A voluminous edition was issued in march 1968 which brings normals and mean values up till 1960.

METEOROLOGICAL RESEARCH BULLETIN

First issued in January 1969 on a bi-annual basis. It includes research works carried out by members of staff of "The Meteorological Institute for Research and Training" and the Operational Divisions of Meteorological Department.

TECHNICAL NOTES

As from October 1970, the Meteorological Department started to issue a new series of publications in the form of Technical Notes (non periodical) on subjects related to studies and applications of meteorology in different fields for the benefit of personnel working in these fields.

The first Technical Note I was issued in October 1970 on : Sandstorms & Duststorms in the U.A.R.



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Note : For explanatory notes on tables please refer to volume 9 number 1 (January 1966).

GENERAL SUMMARY OF WEATHER CONDITIONS

MAY 1966

Alternatively hot and mild, characterized with four variant khamsin disturbances whose transits were rather sandy and breakdowns light rainy in few scattered localities

GENERAL DESCRIPTION OF WEATHER

The prevailing weather was changeable in general, intervened with four variant khamsin disturbances which were of rather short durations in the northern parts of the Republic and of moderate durations in the middle and southern parts. Heat waves attained their peaks round the 1st, 12th, 18th & 30th respectively. The third heat wave was the most excessive in the middle & southern parts while the 4th was the most excessive in the northern parts.

Transits of khamsin disturbances were associated with local rising sand while their breakdowns were followed by mild intervals and light rain over few scattered localities particularly in the northern & middle parts.

The monthly rain was subnormal in general. Few occasions of misty or foggy days were marked over scattered localities of the Delta, Canal & Cairo areas.

PRESSURE DISTRIBUTION

The prevailing surface pressure systems during this month were :

— High pressure extending from the Azores northeastwards towards West Europe and southeastwards through the Mediterranean and NE Africa.

— The Siberian anticyclonic ridge over southwest Russia.

— Travelling deep low pressure systems through north Europe and the attached secondaries over Italy and the Balkans.

— Travelling khamsin depressions.

During this month the barometric pressure in U.A.R. was oscillatory and experienced several falls attaining successive minima round the 3rd, 7th, 12th, 18th, 23rd, 27th & 31st respectively.

On the first day of the month, a khamsin low was observed over the Western Desert, it moved rapidly through East Mediterranean on the 2nd and through Iraq on the 3rd. This low was accompanied with a slight northward elongation of the Sudan trough.

A secondary depression developed over North Italy on the 6th at the foot of the deep low pressure system over North Europe. It proceeded eastwards, traversed North Balkans by the 8th, then it continued its motion NEwards towards the Black Sea. During the same period the complex monsoon low over Arabia showed a north-west elongation and the barometric pressure in U.A.R. experienced a second fall.

Another secondary depression developed over Italy on the 10th which moved eastwards reaching North Balkans on the 11th, then it continued its motion north-eastwards on the 12th when the Sudan trough showed a northward elongation and accordingly the barometric pressure in our country experienced a third fall.

The second khamsin depression during this month developed over west of the Libyan Desert on the 14th in the south-east vicinity of the main West Mediterranean depression.

The khamsin secondary moved slowly eastwards traversing the northern parts of the country on the 18th, then it continued its course afterwards through East Mediterranean and Iraq. The transits of this khamsin low caused a subnormal fall in barometric pressure with a pronounced minimum on the 18th.

Local high pressure established over East Mediterranean between the 21st and 24th when the barometric pressure in U.A.R. was slightly above its normal.

On the 25th a deep low pressure system traversed the northern parts of Europe eastwards, it was associated with a shallow secondary over Italy. The whole system proceeded eastwards traversing the Balkans on the 27th. During the same period, the Sudan trough showed a northwards elongation towards the south-east corner of the Mediterranean. Accordingly a marked fall in the barometric pressure in our country was observed with a minimum on the 27th.

On the 30th a khamsin low developed east of the Gulf of Serte ; it proceeded eastwards traversing the Western Desert on the 31st.

In the upper levels the prevailing pressure distribution over the 700, 500 mb charts were confined in the following upper systems :

— Two deep upper low pressure systems one over North Russia and the other over North Atlantic.

— Minor transitory upper lows or troughs through latitudes between 30, 45°N.

— Upper high pressure belt over subtropical latitudes.

During this month four secondary upper lows and a secondary upper trough developed over middle latitudes. The first upper low was observed over Central Mediterranean on the 1st, it moved NE wards and its southern trough crossed East Mediterranean on the 4th. The second upper low developed over Italy on the 7th, it moved slowly eastwards and its southern trough traversed East Mediterranean

on the 13th. The third upper low developed over West Mediterranean on the 14th, it moved slowly NE wards and its southern trough passed through East Mediterranean on the 20th. On the 21st a secondary upper trough was observed over Central Mediterranean, it moved eastwards traversing East Mediterranean on the 24th. The last upper low during the month developed north of Greece on the 27th. It moved slowly eastwards and its trough crossed East Mediterranean by the end of the month.

The highest wind speed in upper air at Mersa Matruh, Helwan & Aswan was 150, 152 & 110 knots on the 8th, (6th & 26th) & 6th respectively.

SURFACE WIND

The most prevailing winds during this month were light to moderate N ly & NW ly. Winds become fresh to strong during many days of the month in many localities of the Red Sea district and during few days in scattered localities of the northern coast, Western Desert & Upper Egypt districts. On the other hand winds dropped to calms most of night and early morning intervals in scattered localities.

Gales were reported at : Kabrit on the 11th; Aswan on the 20th and at Hurghada on the 3rd, 11th & (20th-25th).

TEMPERATURE

This month was characterized by four heat waves followed by mild periods. The heat waves were of short durations in the northern parts and moderate durations in the middle & southern parts and they reached their peaks round the 1st, 12th, 18th & 31st.

Maximum temperature oscillated above normal during the heat waves and their values ranged between 26°C, 38°C (2°C-12°C above normal) in the northern parts, between 31°C, 44°C (2°C-9°C above normal) in the middle parts and between 36°C, 54°C (2°C-7°C above normal) in the southern parts. During the

mild periods maximum temperatures were about 2°C-5°C below normal and their values ranged between 21°C, 25°C in the northern parts, between 26°C, 34°C in the middle parts and between 34°C, 39°C in the southern parts.

The absolute maximum air temperature for the Republic was 46.0°C reported at Dakhla & Kharga on the 18th.

Minimum temperatures oscillated round normal in the northern & middle parts and their values ranged between 10°C, 18°C in general (2°C-5°C below or above normal). As an exception in the middle parts minimum temperatures ranged between 18°C & 25°C (2°C-9°C above normal) during the heat waves. In the southern parts minimum temperatures ranged between 19°C, 26°C in general with departure of 2°-5°C from normal.

The absolute minimum air temperature for the Republic was 8.2°C reported at El Kasr on the 10th.

PRECIPITATION

During this month rainfall was generally subnormal and confined to few scattered localities mainly in the northern and middle parts where light rain fell round the 1st, 21th, 18th & 24th.

The absolute monthly rainfall for the Republic was 1.1 mms reported at Kharga & Hurghada while the maximum daily rainfall was 1.1 mms reported at Kharga on the 25th.

Cairo, March 1971

M. F. TAHA
Under Secretary of State
Director General
Meteorological Department

**TABLE A 1.—MONTHLY VALUES OF THE ATMOSPHERIC PRESSURE, AIR TEMPERATURE,
RELATIVE HUMIDITY, BRIGHT SUNSHINE DURATION & PICHE EVAPORATION**

MAY — 1966

STATION	Atmospheric Pressure (mbs) M.S.L		Air Temperature °C										Relative Humidity %		Bright Sunshine Duration (Hours)			Piche Evaporation mm. Mean
	Mean	D.F Normal or Average	Maximum		Minimum		$\frac{A+B}{2}$	Dry Bulb		Wet Bulb		Mean	D.F Normal or Average	Total Actual	Total Possible	%		
			(A) Mean	D.F Normal or Average	(B) Mean	D.F Normal or Average		Mean	D.F Normal or Average	Mean	D.F Normal or Average							
Sallum	1015.4	+1.5	24.7	-1.5	16.7	+0.2	29.7	20.3	-0.6	16.5	+0.3	66	+ 7	—	—	—	7.1	
Mersa Matruh (A)	1015.6	+2.1	24.6	-0.9	14.7	+0.2	19.6	19.7	-0.4	16.4	+0.1	70	+ 4	—	—	—	6.8	
Alexandria . . (A)	1015.1	+2.2	27.0	+0.4	15.6	-0.9	21.3	21.0	-0.4	17.1	-0.6	66	- 1	307.0	425.6	72	7.1	
Port Said . . (A)	1014.6	+2.1	24.3	-1.3	20.4	+0.8	22.4	22.2	+0.2	18.5	-0.5	69	- 1	325.1	425.6	76	7.2	
El Arish	1014.8	+2.7	26.0	-0.9	16.4	+0.3	21.2	21.3	-0.2	18.4	+0.6	74	+ 7	—	—	—	5.2	
Ghazza.	1014.4	+2.3	25.0	+0.2	16.2	-0.2	20.6	20.9	-0.1	17.8	-0.1	73	+ 1	330.2	426.6	77	4.8	
Tanta	1013.8	+1.7	31.0	-0.7	15.3	+0.9	23.2	22.6	-0.0	16.6	+0.2	51	+ 2	334.5	424.5	79	7.0	
Cairo (A)	1014.2	+2.0	31.6	-0.7	17.8	+0.4	24.7	24.5	-0.1	14.6	-0.4	40	- 3	—	—	—	21.4	
Fayoum	1013.7	+1.7	33.1	-0.6	17.4	+0.2	25.2	25.2	+0.2	16.5	+0.5	36	+ 1	—	—	—	11.8	
Minya (A)	1013.0	+2.0	34.8	-0.1	17.0	+0.6	25.9	25.9	+0.2	16.1	-0.5	31	- 5	307.0	419.4	73	14.5	
Assyout . . . (A)	1012.0	+1.3	35.5	-0.6	19.7	+0.5	27.6	27.5	-0.1	15.7	-0.0	22	0	—	—	—	23.5	
Luxor (A)	1010.3	+1.5	38.9	+0.1	21.1	+1.0	30.0	30.6	+0.5	17.6	+0.2	21	- 1	—	—	—	16.9	
Aswan (A)	1009.4	+0.8	38.6	+0.5	22.1	+1.4	30.4	31.5	+1.5	15.9	+0.4	11	- 1	—	—	—	24.2	
Siwa.	1013.9	+1.0	33.4	-0.8	17.9	+1.3	25.6	26.0	+0.4	16.0	+0.5	30	+ 1	—	—	—	17.6	
Bahariya	1013.6	+1.8	34.0	-0.4	18.5	+1.3	26.2	26.6	+0.9	16.2	+0.3	29	+ 1	—	—	—	13.1	
Farafra	1013.7	+0.1	33.0	-1.3	15.9	-0.8	24.4	24.6	-0.9	16.1	+1.6	37	+14	—	—	—	18.0	
Dakhla	1012.4	+2.0	37.1	+0.2	18.9	-0.6	28.0	28.4	-0.8	15.5	+0.5	18	- 6	—	—	—	22.8	
Kharga	1011.3	+1.0	37.4	- 0.3	23.5	+3.6	30.4	30.4	+2.4	15.9	+0.2	19	- 3	294.3	413.9	71	31.0	
Tor	1011.1	+1.8	31.1	+0.4	21.1	+0.6	26.1	25.4	+0.3	19.5	+0.5	55	+ 1	—	—	—	15.0	
Hurgada	1010.5	+1.2	30.9	+1.2	21.2	+0.8	26.0	26.3	+0.7	17.5	-0.5	38	- 6	—	—	—	23.5	
Quesir	1011.2	+2.1	29.9	-0.4	22.9	+0.1	26.4	26.6	-0.1	18.9	+0.3	45	+ 1	—	—	—	31.0	

TABLE A 2.—MAXIMUM AND MINIMUM AIR TEMPERATURES

MAY 1966

STATION	Maximum Temperature °C									Grass Min. Temps.		Minimum Temperature °C							
	Highest	Date	Lowest	Date	No. of Days with Max-Temp.					Mean	D. From Normal	Highest	Date	Lowest	Date	No. of Days with Min. Temp.			
					>25	>30	>35	>40	>45							<10	< 5	< 0	<- 5
Sallum	35.8	30	20.6	12	9	3	1	0	0	15.7	—	21.2	30	12.8	7	0	0	0	0
Mersa Matrnh. . . . (A)	38.1	30	20.8	5	8	2	1	0	0	—	—	18.7	30	11.3	7	0	0	0	0
Alexandria (A)	36.0	31	27.5	7	17	7	3	0	0	—	—	18.6	18	10.7	8	0	0	0	0
Port Said (A)	28.5	31	22.0	7	10	0	0	0	0	18.9	—	22.7	18	18.2	5	0	0	0	0
El Arish	33.9	31	23.0	7	15	4	0	0	0	14.9	—	19.9	26	12.9	7	0	0	0	0
Ghazze	33.5	2	23.0	7	13	2	0	0	0	15.6	—	20.3	19	13.0	8	0	0	0	0
Tanta..	39.0	31	26.0	4, 23	31	16	5	0	0	—	—	20.4	31	11.4	11	0	0	0	0
Cairo. (A)	41.6	18	26.4	23	31	17	7	1	0	—	—	25.1	31	14.3	4	0	0	0	0
Fayoum	42.1	18	28.1	7	31	22	10	2	0	15.0	—	22.2	18	14.0	11	0	0	0	0
Minya (A)	44.3	18	30.0	7	31	29	12	5	0	14.5	—	22.8	19	11.8	9	0	0	0	0
Assyout (A)	44.8	18	30.0	3, 7	31	29	16	4	0	17.9	—	26.1	19	15.2	8	0	0	0	0
Luxor (A)	44.8	18	31.6	25	31	31	25	16	0	15.8	—	27.4	19	15.8	8	0	0	0	0
Aswan (A)	45.3	19	33.8	8	31	31	26	16	1	—	—	28.0	2	16.2	9	0	0	0	0
Siwa	42.0	31	27.3	3, 6	31	23	11	2	0	16.9	—	22.3	17	12.3	7	0	0	0	0
Bahariya	41.2	13, 17	28.4	4	31	24	15	3	0	16.9	—	23.9	13	12.8	8	0	0	0	0
Farafra	42.2	17	27.7	2	31	19	12	2	0	—	—	23.2	18	9.7	7	1	0	0	0
Dakhla	46.0	18	31.2	5	31	31	19	10	1	—	—	26.0	20	12.6	6, 8	0	0	0	0
Kharga	46.0	18	29.1	25	31	30	21	10	1	21.3	—	28.0	14	13.4	8	0	0	0	0
Tor.	39.0	13	26.2	25	31	17	4	0	0	—	—	23.8	19	15.8	7	0	0	0	0
Hurghada	36.5	18	27.4	27	31	19	3	0	0	20.5	—	26.6	20	15.8	7	0	0	0	0
Quesir	35.7	18	26.8	27	31	14	1	0	0	21.6	—	25.8	18, 19	19.1	6	0	0	0	0

TABLE A 3.—SKY COVER AND RAINFALL

MAY — 1966

Station	Mean Sky Cover (Oct)					Rainfall (mms)										
	00	06	12	18	Daily	Total Amount	Dev. From Normal	Max. Fall in one day		Number of days with Amount of Rain						
	U.T.	U.T.	U.T.	U.T.	Mean			Amount	Date	<0.1	≥0.1	≥1.0	≥5.0	≥10	≥25	≥50
Sallum	2.4	3.6	3.6	3.4	2.9	0.2	— 2.1	0.1	12.15	0	2	0	0	0	0	0
Mersa Matruh (A)	1.5	3.8	3.3	1.8	2.4	Tr.	— 2.5	Tr.	18	1	0	0	0	0	0	0
Alexandria (A)	2.7	3.6	3.3	3.8	3.4	0.0	— 2.0	0.0	—	0	0	0	0	0	0	0
Port Said (A)	1.3	2.4	2.6	1.8	2.0	0.3	— 2.7	0.2	1	1	2	0	0	0	0	0
El Arish	2.3	2.6	2.8	2.5	2.7	0.2	— 3.1	0.1	1.2	0	2	0	0	0	0	0
Ghazza	2.6	3.4	2.8	2.9	2.9	0.0	— 3.0	0.0	—	0	0	0	0	0	0	0
Tanta	0.4	1.8	3.2	1.5	1.7	0.4	— 3.3	0.4	1	0	1	0	0	0	0	0
Cairo (A)	1.4	3.1	3.5	2.1	2.6	Tr.	— 0.7	Tr.	1.20	2	0	0	0	0	0	0
Fayoum	—	2.0	2.8	2.1	—	Tr.	— 1.3	Tr.	1	1	0	0	0	0	0	0
Minya (A)	1.2	2.0	2.6	2.1	2.0	Tr.	— 0.6	Tr.	1	1	0	0	0	0	0	0
Assiout (A)	1.8	2.5	2.6	2.4	2.3	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Luxor (A)	2.4	3.4	3.4	2.9	2.9	0.9	+ 0.5	0.9	24	1	1	0	0	0	0	0
Aswan (A)	2.3	3.3	2.9	2.9	2.9	0.0	— Tr.	0.0	—	0	0	0	0	0	0	0
Siwa	1.7	2.8	3.2	3.1	2.6	0.1	— 1.7	0.1	19	0	1	0	0	0	0	0
Bahariya	0.7	1.9	2.6	1.9	1.8	0.3	+ 0.2	0.3	3	2	1	0	0	0	0	0
Farafra	—	2.9	3.3	1.7	—	0.0	— 0.1	0.0	—	0	0	0	0	0	0	0
Dakhla	1.7	3.1	3.7	2.3	2.5	Tr.	— 0.1	Tr.	24,25	2	0	0	0	0	0	0
Kharga	1.8	2.7	3.3	2.6	2.6	1.1	+ 0.8	1.1	25	0	1	1	0	0	0	0
Tor	1.2	2.5	3.4	2.7	2.6	Tr.	— 0.2	Tr.	2	1	0	0	0	0	0	0
Hughada	2.2	2.5	3.0	2.8	2.7	1.1	+ 0.7	0.5	25	0	4	0	0	0	0	0
Quesir	2.6	2.8	3.6	2.6	2.9	Tr.	0.0	Tr.	2.27	2	0	0	0	0	0	0

TABLE A 4—DAYS OF OCCURRENCE OF MISCELLANEOUS WEATHER PHENOMENA.

MAY—1966

Station	Precipitation				Frost	Thunderstorm	Mist Vis \geq 1000 metres	Fog Vis $<$ 1000 Metres	Haze Vis \geq 1000 Metres	Thick Haze Vis $<$ 1000 Metres	Dust or Sandstorm Vis \geq 1000 Metres	Dust or Sandstorm Vis $<$ 1000 Metres	Gale	Clear Sky	Cloudy Sky
	Rain	Snow	Ice Pellets	Hail											
Sellum	2	0	0	0	0	0	0	0	0	0	3	0	0	11	0
Mersa Matruh (A)	0	0	0	0	0	0	2	1	0	0	1	0	0	11	1
Alexandria (A)	0	0	0	0	0	0	4	1	1	0	1	0	0	10	0
Port Said (A)	2	0	0	0	0	0	0	0	0	0	0	0	0	16	0
El Arish	2	0	0	0	0	0	6	1	0	0	1	0	0	14	1
Ghazza	0	0	0	0	0	0	1	1	0	0	0	0	0	11	1
Tanta	1	0	0	0	0	0	0	0	0	0	0	0	0	22	0
Cairo	0	0	0	0	0	0	8	0	4	0	2	0	0	17	0
Fayoum	0	0	0	0	0	0	0	0	0	0	0	0	0	—	—
Minya (A)	0	0	0	0	0	0	0	0	1	0	2	0	0	19	1
Assyout (A)	0	0	0	0	0	0	0	0	14	0	9	0	0	15	1
Luxor (A)	1	0	0	0	0	0	0	0	15	0	9	0	0	13	3
Aswan (A)	0	0	0	0	0	0	0	0	1	0	12	5	1	11	0
Siwa	1	0	0	0	0	0	0	0	0	0	2	0	0	14	1
Bahariya	1	0	0	0	0	0	0	0	0	0	1	1	0	20	0
Farafra	0	0	0	0	0	0	0	0	1	0	3	0	0	—	—
Dakhla	0	0	0	0	0	0	0	0	4	0	9	0	0	16	0
Kharga	1	0	0	0	0	0	0	0	0	0	10	0	0	16	1
Tor	0	0	0	0	0	0	0	0	7	0	11	0	0	12	1
Burgbada	4	0	0	0	0	0	0	0	0	0	2	0	8	15	1
Quseir	0	0	0	0	0	0	0	0	1	0	1	0	0	14	4

**TABLE A 5.—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE
WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES**

MAY — 1966

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													
					345	015	045	075	105	135	165	195	225	255	285	315	All directions	
					/	/	/	/	/	/	/	/	/	/	/	/		
					014	044	074	104	134	164	194	224	254	284	314	344		
Sallum	46	15	0	1-10	47	143	138	75	21	3	7	2	9	13	36	46	540	
				11-27	22	29	11	8	0	1	5	6	0	2	39	20	143	
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	69	172	149	83	21	4	12	8	9	15	75	66	683	
Mersa Matruh (A)	16	0	0	1-10	53	145	36	39	36	21	18	2	5	35	50	30	470	
				11-27	51	34	26	18	45	15	9	13	4	2	6	35	258	
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	104	179	62	57	81	36	27	15	9	37	56	65	728	
Alexandria (A)	41	2	0	1-10	121	92	50	25	42	14	10	7	6	26	27	129	549	
				11-27	17	16	9	9	7	0	0	0	1	7	14	72	182	
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	138	108	59	34	49	14	10	7	7	33	41	201	764	
Port Said . . (A)	1	3	1	1-10	127	75	30	33	18	13	8	0	13	16	4	34	372	
				11-27	150	68	50	13	1	0	1	0	2	11	22	49	367	
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	277	144	80	46	19	13	9	0	15	27	26	83	739	
Tanta.	14	3	0	1-10	137	90	49	57	46	10	5	3	20	46	109	145	717	
				11-27	3	0	1	1	1	0	0	0	1	2	0	1	10	
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	140	90	50	58	47	10	5	3	21	48	109	146	727	
Cairo . . . (A)	8	0	16	1-10	67	111	74	29	7	5	1	0	3	10	20	58	385	
				11-27	51	100	66	37	21	5	0	4	2	7	22	20	335	
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	118	211	140	66	28	10	1	4	5	17	42	78	720	
Fayoum	1	11	0	1-10	395	108	20	6	4	2	5	6	7	7	30	133	723	
				11-27	4	0	0	0	0	0	0	0	0	0	1	4	9	
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	399	108	20	6	4	2	5	6	7	7	31	137	732	
Minya . . . (A)	2	14	3	1-10	159	16	2	0	1	4	5	1	1	8	32	162	391	
				11-27	198	7	0	0	0	0	1	0	2	2	3	120	333	
				28-47	1	0	0	0	0	0	0	0	0	0	0	0	1	
				≥ 48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	358	23	2	0	1	4	6	1	3	10	35	283	725	

TABLE A 5. (contd.)—NUMBER IN HOURS OF OCCURRENCES OF CONCURRENT SURFACE WIND SPEED AND DIRECTION RECORDED WITHIN SPECIFIED RANGES

MAY — 1966

Station	Calm (hours)	Variable (hours)	Unrecorded (hours)	Wind speed in knots	Number in hours of occurrences of wind blowing from the ranges of directions indicated													All directions
					345	015	045	075	105	135	165	195	225	255	285	315		
					/	/	/	/	/	/	/	/	/	/	/	/		
					014	044	074	104	134	164	194	224	254	284	314	344		
Asyout	0	0	1	1-10	17	18	7	9	8	2	2	4	48	181	149	85	530	
				11-27	32	13	0	1	1	0	0	0	6	31	129	213		
				28-47	0	0	0	0	0	0	0	0	0	0	0	0		
				≥48	0	0	0	0	0	0	0	0	0	0	0	0		
				All speeds	49	31	7	10	9	2	2	4	48	187	180	214	743	
Luxor	2	2	0	1-10	58	57	39	23	16	26	64	28	16	61	180	153	721	
				11-27	0	0	0	0	0	0	0	0	0	9	9	18		
				28-47	0	0	0	0	0	0	0	0	0	0	0	0		
				≥48	0	0	0	0	0	0	0	0	0	0	0	0		
				All speeds	58	57	39	23	16	26	64	28	16	61	189	162	739	
Aswan	4	0	0	1-10	198	159	20	6	1	1	0	0	1	0	6	42	434	
				11-27	161	121	2	3	0	0	0	0	0	0	0	18	305	
				28-47	1	0	0	0	0	0	0	0	0	0	0	0	1	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	360	280	22	9	1	1	0	0	1	0	6	60	740	
Gharga	6	3	39	1-10	135	59	7	2	4	7	3	1	1	9	13	61	302	
				11-27	294	65	1	0	0	1	0	0	0	0	1	31	393	
				28-47	1	0	0	0	0	0	0	0	0	0	0	0	1	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	430	124	8	2	4	8	3	1	1	9	14	92	696	
Siwa	0	3	2	1-10	22	49	86	94	66	40	25	16	12	43	46	21	520	
				11-27	5	11	44	57	32	17	5	0	0	17	21	10	219	
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	27	60	130	151	98	57	30	16	12	60	67	31	739	
Dakhla	0	7	0	1-10	72	62	54	44	27	20	46	18	36	63	70	134	646	
				11-27	32	4	0	0	1	0	0	0	0	5	49	91		
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	104	66	54	44	28	20	46	18	36	63	75	183	737	
Hurghada	1	0	0	1-10	9	9	3	1	1	9	0	0	2	6	28	17	84	
				11-27	188	20	3	4	0	0	0	0	0	9	103	240	568	
				28-47	10	0	0	0	0	0	0	0	0	6	4	71	91	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	207	29	6	5	1	9	0	0	2	21	135	328	743	
Quseir	0	7	0	1-10	123	47	6	2	1	4	5	2	2	5	74	154	425	
				11-27	224	16	0	0	0	0	0	0	0	2	70	312		
				28-47	0	0	0	0	0	0	0	0	0	0	0	0	0	
				≥48	0	0	0	0	0	0	0	0	0	0	0	0	0	
				All speeds	347	63	6	2	1	4	5	2	2	5	76	224	737	

TABLE B 1.—UPPER AIR CLIMATOLOGICAL DATA

MAY — 1966

Station	Pressure Surface Millibar	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Marsa Matruh 0000 U.T.	Surface	26	* 1016mb	* 1022mb	* 1009mb	26	15.9	19.5	11.6	26	13.3
	1000	26	163	210	106	26	16.3	20.0	11.4	26	12.1
	850	26	1544	1584	1517	26	13.3	21.3	7.1	24	- 0.6
	700	26	3149	3207	3094	26	3.3	8.0	- 3.3	14	- 7.4
	600	26	4381	4460	4300	26	- 5.2	- 1.7	-10.0	12	-11.8
	500	26	5788	5885	5680	26	-14.7	-11.6	-20.0	9	-20.5
	400	26	7439	7552	7292	26	-27.1	-22.8	-33.1	7	-29.8
	300	24	9531	9580	9254	24	-42.4	-38.3	-47.6	1	-43.0
	200	23	12099	12263	11960	23	-57.4	-47.8	-61.6	—	—
	150	18	13913	14025	13832	18	-59.6	-52.2	-67.3	—	—
	100	11	16430	16497	16377	11	-64.8	-61.2	-70.1	—	—
	70	5	18604	18680	18510	5	-64.1	-62.0	-67.0	—	—
	60	5	19560	19633	19450	5	-62.1	-60.7	-68.7	—	—
	50	4	20894	20763	20578	4	-60.0	-59.1	-61.5	—	—
	40	4	22096	22156	21978	4	-57.5	-55.9	-58.7	—	—
	30	3	23913	23978	23805	3	-53.6	-51.3	-55.1	—	—
	20	—	—	—	—	—	—	—	—	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 0000 U.T.	Surface	31	* 997mb	* 1002mb	* 991mb	31	20.5	30.7	15.8	31	8.3
	1000	31	119	158	68	5	18.4	21.8	15.8	5	7.4
	850	31	1512	1557	1465	31	16.1	22.1	9.0	22	- 2.0
	700	31	3134	3175	3085	31	6.6	10.7	1.0	18	- 6.4
	600	31	4380	4424	4308	31	- 1.8	- 0.7	- 6.6	19	-12.5
	500	31	5804	5860	5700	31	-11.9	- 8.3	-17.2	16	-20.1
	400	31	7442	7534	7339	31	-24.2	-20.6	-30.2	12	-29.1
	300	31	9499	9581	9347	31	-39.6	-37.0	-43.4	5	-44.1
	200	31	12176	12242	12041	31	-56.4	-49.4	-63.3	—	—
	150	31	13681	14058	13895	31	-61.2	-54.1	-71.4	—	—
	100	31	16463	16561	16388	31	-66.8	-60.6	-72.5	—	—
	70	31	18626	18720	18540	31	-65.7	-62.0	-69.5	—	—
	60	30	19561	19661	19460	30	-62.7	-58.4	-68.2	—	—
	40	28	20692	20807	20530	28	-59.2	-53.8	-63.1	—	—
	50	25	22102	22221	21983	25	-56.5	-52.2	-59.4	—	—
	30	20	23947	24071	23811	20	-53.1	-49.4	-55.7	—	—
	20	14	26668	26732	26450	14	-48.6	-38.1	-55.4	—	—
	10	3	31219	31245	31169	3	-41.9	-40.5	-43.6	—	—
Awan 0000 U.T.	Surface	19	* 988mb	* 992mb	* 985mb	19	25.8	30.8	19.8	19	1.8
	1000	19	89	124	60	—	—	—	—	—	—
	850	19	1509	1529	1492	19	23.1	29.3	15.2	7	1.6
	700	19	3161	3196	3124	19	10.6	14.3	6.8	14	-6.9
	600	19	4424	4467	4377	19	1.2	5.1	- 2.9	13	-10.7
	500	19	5864	5909	5794	19	- 8.2	- 4.5	-11.8	8	-20.6
	400	17	7565	7623	7498	17	-20.3	-17.0	-23.8	6	-27.8
	300	17	9633	9715	9551	17	-36.0	-31.3	-38.3	6	-39.4
	200	17	12328	12464	12229	17	-54.8	-51.3	-58.6	—	—
	150	14	14125	14279	13998	14	-64.6	-60.2	-67.8	—	—
	100	9	16533	16681	16380	9	-75.2	-71.8	-79.7	—	—
	70	6	18691	18830	18555	6	-69.4	-64.4	-73.9	—	—
	60	4	19628	19781	19506	4	-63.7	-55.6	-68.0	—	—
	50	4	20762	20891	20600	4	-61.7	-59.4	-64.2	—	—
	40	4	22163	22295	22007	4	-57.4	-56.5	-59.3	—	—
	30	4	23994	24140	23833	4	-54.0	-51.3	-58.0	—	—
	20	2	26631	26693	26569	2	-47.6	-44.0	-51.3	—	—
	10	—	—	—	—	—	—	—	—	—	—

N = Number of observations of specified pressure surface.

* The atmospheric pressure corrected to the elevation of the radiosonde stations

TABLE B 1 (contd.)—UPPER AIR CLIMATOLOGICAL DATA

MAY — 1966

Station	Pressure Surface Millibar	Altitude of Pressure Surface (gpm)				Temperature (°C)				Dew Point (°C)	
		N	Mean	Highest	Lowest	N	Mean	Highest	Lowest	N	Mean
Mersa Matruh 1200 U.T.	Surface	26	1017mb	1021mb	1010mb	26	22.1	26.3	18.9	26	15.0
	1000	26	172	208	116	26	20.3	24.8	15.5	26	11.9
	850	26	1561	1594	1527	26	14.1	22.3	4.1	29	-1.4
	700	25	3173	3231	3113	25	4.6	8.9	-0.2	14	-7.0
	600	26	4410	4484	4338	25	-3.9	-0.8	-8.7	10	-12.1
	500	26	5825	5915	5733	26	-13.6	-9.7	-18.8	10	-21.8
	400	26	7483	7591	7359	26	-26.1	-22.8	-33.5	6	-31.0
	300	25	9508	9637	9382	25	-40.9	-37.2	-45.0	—	—
	200	25	12159	12289	11966	25	-56.2	-46.0	-63.6	—	—
	150	24	13980	14071	13841	34	-58.9	-50.1	-67.9	—	—
	100	19	16496	16647	16345	19	-62.4	-58.5	-69.1	—	—
	70	6	18703	18850	18600	6	-62.2	-60.3	-65.2	—	—
	60	3	19631	19732	19529	3	-59.6	-56.0	-62.0	—	—
	50	3	20781	20877	20668	3	-56.3	-53.7	-58.1	—	—
	40	2	22276	22312	22240	2	-52.2	-50.7	-63.6	—	—
	30	2	24214	24297	24130	2	-46.9	-46.8	-47.0	—	—
	20	2	26939	27090	26848	2	-40.5	-39.4	-41.6	—	—
	10	—	—	—	—	—	—	—	—	—	—
Helwan 1200 U.T.	Surface	31	997mb	1002mb	994mb	31	30.5	37.6	25.4	31	-4.8
	1000	31	117	158	76	5	28.8	30.6	27.5	4	11.0
	850	31	1529	1577	1496	31	17.7	25.0	11.6	25	-0.3
	700	31	3159	3215	3103	31	7.5	11.8	1.2	17	-5.5
	600	31	4408	4473	4344	31	-1.5	1.3	-6.7	16	-10.4
	500	31	5843	5908	5734	31	-10.8	-6.3	-16.9	17	-18.8
	400	31	7513	7596	7344	31	-23.0	-20.0	-28.4	14	-28.7
	300	31	9560	9671	9388	31	-38.5	-35.0	-42.0	9	-41.6
	200	31	12236	12369	12083	31	-55.4	-47.0	-62.4	—	—
	150	31	14050	14187	13944	31	-59.7	-53.7	-68.1	—	—
	100	31	16553	16696	16447	31	-65.5	-61.0	-70.0	—	—
	70	31	18719	18870	18600	31	-64.6	-61.0	-69.3	—	—
	60	30	19667	19825	19570	30	-61.0	-52.4	-66.8	—	—
	50	28	20806	20968	20713	28	-58.1	-55.0	-67.0	—	—
	40	25	22217	22403	22131	25	-55.0	-51.0	-63.0	—	—
	30	22	24061	24273	23969	22	-51.0	-48.4	-58.0	—	—
	20	19	26748	26980	26597	19	-44.8	-40.5	-48.2	—	—
	10	6	31499	31619	31355	6	-36.3	-33.2	-38.6	—	—
Aswan 1200 U.T.	Surface	16	987mb	990mb	985mb	16	38.3	43.5	32.5	16	4.8
	1000	10	71	102	54	—	—	—	—	—	—
	850	16	1528	1547	1496	16	25.4	32.1	19.0	3	-0.9
	700	16	3191	3231	3135	16	12.7	16.9	10.4	9	-6.9
	600	14	4465	4522	4423	14	2.9	6.1	1.0	9	-11.5
	500	13	5918	5985	5865	13	-6.6	-4.6	-9.5	7	-19.5
	400	13	7626	7694	7571	13	-17.9	-15.8	-19.8	4	-27.4
	300	13	9715	9808	9664	13	-32.8	-29.2	-36.7	4	-38.5
	200	10	12451	12597	12388	10	-51.8	-45.0	-55.2	—	—
	150	10	14262	14465	14118	10	-61.8	-57.1	-65.8	—	—
	100	10	16676	16823	16564	10	-72.5	-67.8	-78.4	—	—
	70	7	18829	19090	18670	7	-70.2	-66.3	-75.2	—	—
	60	6	19757	20035	19576	6	-66.8	-61.2	-77.9	—	—
	50	6	20788	21155	20708	6	-61.6	-56.0	-79.3	—	—
	40	5	22296	22561	22118	5	-54.5	-51.7	-57.0	—	—
	30	5	24161	24408	23978	5	-49.8	-48.0	-51.8	—	—
	20	3	26919	27094	26817	3	-41.0	-37.0	-43.5	—	—
	10	—	—	—	—	—	—	—	—	—	—

*N.— Number of observations of specified pressure surface.

* The atmospheric pressure corrected to the elevation of the radiosonde stations.

**TABLE B 2.—MEAN AND EXTREME VALUES OF THE FREEZING LEVEL AND THE TROPOPAUSE;
THE HIGHEST WIND SPEED IN THE UPPER AIR**

MAY — 1966

Station	Freezing Level									First Tropopause									Highest wind speed			
	Mean			Highest			Lowest			Mean			Highest			Lowest			Altitude (gpm)	Pressure (mb.)	Direction (000—360)°	Speed in Knots
	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Dew point (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)	Altitude (gpm)	Pressure (mb.)	Temperature (°C)				
0000 UT	(N)	(N)	(N)							(N)	(N)	(N)										
	M. Matruh (A) 3600 (26)	662 (26)	-9.1 (12)	4250	617	-11.2	2710	736	—	12229 (18)	200 (18)	-65.6 (18)	16394	100	-61.2	9341	300	-46.1	13500	159	244	119
	Helwan . . . 4066 (31)	623 (31)	-10.8 (19)	4480	593	—	3230	688	—	13676 (31)	161 (31)	-63.3 (31)	16230	105	-70.9	10930	237	-48.8	15170	125	260	152
1900 U.T.	Aswan . (A) 4635 (19)	585 (19)	-11.9 (12)	5207	542	—	4100	620	-9.8	15990 (8)	111 (8)	-74.2 (8)	16669	100	-71.8	14570	186	-70.8	12370	191	250	110
	(N)	(N)	(N)							(N)	(N)	(N)										
	M. Matruh (A) 3825 (26)	646 (26)	-10.5 (15)	4190	618	—	3320	684	—	12114 (25)	203 (25)	-54.0 (25)	14200	145	-58.0	10120	266	-48.9	12935	180	262	150
1900 U.T.	Helwan . . . 4240 (31)	651 (31)	-10.0 (17)	5030	557	—	3380	680	—	14252 (30)	152 (30)	-63.3 (30)	17997	80	-70.4	11330	225	-49.3	10450	253	250	152
	Aswan . (A) 4880 (14)	570 (14)	-13.7 (9)	5200	550	-11.8	4540	592	—	16716 (6)	102 (6)	-73.4 (6)	17800	87	-73.3	15110	131	-70.2	12750	—	260	100

N = The number of cases the element has been observed during the month.

TABLE B 3.— NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES

MERSA MATRUH (A) — MAY 1966

Time	Pressure Surface Millibar	Wind between ranges of direction (000—360)*																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (Knots)
		345 / 014		015 / 044		045 / 074		075 / 104		105 / 134		135 / 164		165 / 194		195 / 224		225 / 254		255 / 284		285 / 314		315 / 344				
		(ff)		(ff)		(ff)		(ff)		(ff)		(ff)		(ff)		(ff)		(ff)		(ff)		(ff)		(ff)				
		N	m	N	m	N	m	N	m	N	m	N	m	N	m	N	m	N	m	N	m	N	m	N	m			
0000 U.T.	Surface	2	12	5	5	1	3	1	7	1	7	2	13	1	20	1	7	1	1	1	2	5	5	2	9	3	26	6
	1000	6	10	4	10	0	—	2	10	4	15	1	19	0	—	0	—	0	—	1	7	4	12	3	11	0	25	12
	850	3	9	0	—	0	—	0	—	0	—	0	—	0	—	2	14	4	14	3	16	5	18	4	20	0	21	16
	700	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	40	2	32	2	20	0	—	0	5	28
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	31	0	—	0	—	0	5	31
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	49	3	32	0	—	0	—	0	5	35
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	49	4	34	0	—	0	—	0	5	37
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	82	3	74	1	13	0	—	0	5	63
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	97	3	73	0	—	0	—	0	4	79
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	71	0	—	0	—	0	1	71
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1200 U.T.	Surface	5	10	8	12	4	10	1	18	3	17	0	—	0	—	0	—	0	—	0	—	—	5	18	0	26	13	
	1000	8	13	3	13	3	11	2	14	1	40	0	—	0	—	0	—	0	—	0	—	1	24	8	19	0	26	16
	850	1	16	1	20	0	—	0	—	0	—	1	40	1	6	2	10	3	24	3	29	9	20	5	17	0	26	20
	700	2	15	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	22	7	25	9	24	0	—	0	23	23
	600	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	39	12	30	4	32	1	15	0	23	32
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	44	11	38	3	34	0	—	0	23	40
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	50	11	51	2	38	0	—	0	21	50
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	57	7	55	1	104	0	—	0	13	65
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	102	4	69	0	—	0	—	0	5	87
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	97	0	—	0	—	0	3	97
	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

N — The number of cases the element has been observed during the month.

TN — The total number of cases the wind has been observed for all directions during the month.

TABLE B 3 (contd.)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES
HELWAN — MAY 1966

Time	Pressure Surface Millibar	Wind between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (Knots)
		345		015		045		075		105		135		165		195		225		255		285		315				
		/	014	/	044	/	074	/	104	/	134	/	164	/	194	/	224	/	254	/	284	/	314	/	344			
		N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m	N	(ff) m			
0000 U.T.	Surface	7	9	12	12	3	14	4	9	0	—	1	6	0	—	0	—	0	—	0	—	0	—	3	6	1	31	19
	1000	1	8	3	18	1	17	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	5	16
	850	6	16	5	15	0	—	0	—	0	—	0	—	1	7	0	—	1	22	6	13	4	14	8	14	0	31	15
	700	1	7	0	—	0	—	0	—	0	—	0	—	0	—	0	—	6	31	10	27	7	17	7	17	0	31	23
	600	1	8	1	9	0	—	0	—	0	—	0	—	0	—	0	—	6	40	13	32	9	26	1	17	0	31	31
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	2	10	44	15	31	5	25	0	—	0	31	23
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	11	43	17	42	2	38	0	—	0	30	44
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	9	61	17	65	2	52	0	—	0	28	63
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	10	98	7	77	4	81	0	—	0	21	88
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	82	8	87	0	—	0	—	0	11	86
	100	0	—	0	—	0	—	0	—	0	—	0	—	1	19	0	—	2	50	0	—	0	—	0	—	0	3	40
	70	0	—	0	—	0	—	0	—	0	—	2	13	0	—	0	—	0	—	0	—	0	—	0	—	0	2	13
	60	0	—	0	—	0	—	0	—	0	—	1	12	0	—	0	—	1	33	0	—	0	—	0	—	0	2	22
	50	1	13	0	—	1	10	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	2	12
	40	0	—	0	—	0	—	0	—	1	3	0	—	—	—	0	—	0	—	0	—	0	—	0	—	0	1	3
30	0	—	0	—	0	—	1	6	0	—	0	—	—	—	0	—	0	—	0	—	0	—	0	—	0	1	6	
20	0	—	0	—	0	—	0	—	1	5	0	—	—	—	0	—	0	—	0	—	0	—	0	—	0	1	5	
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1200 U.T.	Surface	10	13	5	12	0	—	0	—	0	—	0	—	0	—	1	4	0	—	3	10	3	10	9	11	0	31	11
	1000	2	16	1	19	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	10	1	12	0	5	14
	850	4	14	10	10	2	14	0	—	0	—	1	8	0	—	0	—	4	18	1	12	2	14	7	14	0	31	13
	700	4	17	1	5	0	—	0	—	0	—	0	—	0	—	1	26	8	29	6	21	5	14	6	20	0	31	21
	600	1	7	0	—	1	4	0	—	0	—	0	—	0	—	1	51	11	33	12	23	4	26	1	31	0	31	27
	500	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	48	14	39	13	27	3	23	0	—	0	31	34
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	13	52	16	41	2	34	0	—	0	31	47
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	14	71	12	58	2	56	0	—	0	28	64
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	70	5	102	8	67	1	66	0	—	0	15	78
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	94	6	64	1	50	0	—	0	10	72
	100	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	70	4	46	0	—	0	—	0	5	51
	70	0	—	0	—	0	—	1	55	0	—	1	50	0	—	0	—	0	—	0	—	0	—	0	—	0	3	42
	60	0	—	0	—	0	—	2	22	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	2	22
	50	0	—	0	—	0	—	0	—	1	18	1	38	0	—	0	—	0	—	0	—	0	—	0	—	0	2	28
	40	0	—	0	—	0	—	1	—	0	—	1	38	0	—	0	—	0	—	0	—	0	—	0	—	0	1	38
30	0	—	0	—	0	—	0	—	0	—	1	17	0	—	0	—	0	—	0	—	0	—	0	—	0	1	17	
20	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	1	11	
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

N — The number of cases the element has been observed during the month.

TN — The total number of cases the wind has been observed for all directions during the month.

**TABLE B 3 (contd.)—NUMBER OF OCCURRENCES OF WIND DIRECTION WITHIN SPECIFIED RANGES AND
THE MEAN SCALAR WIND SPEED AT THE STANDARD AND SELECTED PRESSURE SURFACES.
ASWAN (A) — MAY 1966**

Time	Pressure Surface Millibar	Wind between ranges of direction (000—360)°																								Number of calm winds	Total number of observations (TN)	Mean scalar wind speed (Knots)
		345	015	045	075	105	135	165	195	225	255	285	315															
		/	/	/	/	/	/	/	/	/	/	/	/															
		014	044	074	104	134	164	194	224	254	284	314	344															
		N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)	N	(ff)			
		m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m			
0000 U.T.	Surface	11	10	1	7	2	9	1	7	0	—	0	—	0	—	0	—	0	—	0	—	2	8	2	19	8		
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	850	4	15	6	13	2	9	3	9	0	—	0	—	0	—	0	—	2	12	1	10	1	7	0	19	12		
	700	4	20	0	—	0	—	0	—	2	13	1	6	1	7	0	—	2	15	3	26	3	20	3	8	0	19	17
	600	2	20	2	16	0	—	0	—	1	13	0	—	1	16	1	14	4	24	5	25	3	12	0	—	0	19	19
	500	0	—	0	—	0	—	0	—	1	5	1	10	0	—	2	27	9	27	0	—	3	24	3	17	0	19	23
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	3	28	8	36	3	20	2	31	1	11	0	17	30
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	35	8	45	4	38	3	29	1	20	0	17	39
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	8	63	7	66	1	47	1	58	0	17	62
	150	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	44	6	58	6	60	0	—	0	—	0	14	57
	100	—	—	—	—	—	—	—	—	—	—	—	—	1	21	2	20	4	25	2	34	—	—	—	—	—	9	25
	70	—	—	—	—	—	—	—	—	1	17	2	18	—	—	—	—	—	—	—	—	—	—	—	—	—	3	18
	60	—	—	—	—	—	—	—	—	2	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	14
	50	—	—	—	—	—	—	—	—	—	—	1	21	—	—	—	—	—	—	—	—	—	—	—	—	—	1	21
40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1200 U.T.	Surface	7	11	2	8	1	14	0	—	0	—	0	—	0	—	0	—	0	—	0	—	2	13	3	11	1	16	19
	1000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	850	2	28	2	12	1	8	1	8	0	—	0	—	0	—	0	—	0	—	1	17	3	16	6	13	0	16	15
	700	4	15	2	18	0	—	0	—	0	—	1	14	0	—	0	—	6	30	0	—	1	10	1	29	0	15	22
	600	2	11	2	16	0	—	0	—	0	—	0	—	1	15	1	30	4	34	1	33	3	14	0	—	0	14	22
	500	1	9	1	4	0	—	0	—	0	—	0	—	1	19	4	28	2	28	1	21	2	24	1	9	0	13	22
	400	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	30	4	28	3	24	2	37	0	—	0	13	29
	300	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	5	58	5	42	2	61	0	—	0	12	62
	200	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—	4	62	3	63	2	56	0	—	0	9	61
	150	—	—	—	—	—	—	—	—	—	—	—	—	0	—	1	40	6	47	1	41	2	64	—	—	—	10	49
	100	—	—	—	—	—	—	—	—	—	—	—	—	3	15	3	19	1	33	0	—	2	18	—	—	—	9	21
	70	—	—	—	—	—	—	—	—	3	11	2	12	—	—	0	—	—	—	—	1	8	—	—	—	—	6	11
	60	—	—	—	—	—	—	—	—	2	7	2	10	—	—	0	—	—	—	—	—	—	—	—	—	—	4	9
	50	—	—	—	—	—	—	—	—	0	—	3	11	—	—	1	22	—	—	—	—	—	—	—	—	—	4	14
	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	21
	30	—	—	—	—	—	—	—	—	1	34	1	26	—	—	—	—	—	—	—	—	—	—	—	—	—	2	30
	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	26
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

N — The number of cases the element has been observed during the month.
TN — The total number of cases the wind has been observed for all directions during the month.

REVIEW OF AGRO-METEOROLOGICAL STATIONS

EL KASR—MAY 1966

This month was slightly colder and less rainy than normal. Mean daily air temperature and total rainfall were below normal by 0.3 °C and 3.6 mms respectively.

Daily maximum air temperature all over the month was below normal except at the end of the month when an intense heat wave started on the 28th and attained its peak on the 30th when the highest maximum air temperature, as well as extreme maximum soil temperature down to 20 cms depth, were recorded. Highest amount of Piche and pan «A» evaporation also took place on that day.

The extreme maxima of soil temperature at all depths were higher than the corresponding values of last May, deviations varied between 0.3 °C and 4.4 °C. The extreme minima of soil temperature for surface layers up to 2 cms depth were lower than the corresponding values of last May, while that of 5 cms depth was the same as that of last May, for more depths up to 100 cms depth were higher than the corresponding values of May 1965. Deviations for surface layers varied between -2.9 °C to -0.2 °C while for the layers from 10 cms depth to 100 cms depth, deviations lay between 0.3 °C to 0.9 °C.

Mean daily wind speed at 2 metres was 0.7 m/sec lower than the corresponding value of May 1965. Mean daily Piche and pan «A» evaporation were lower than the corresponding values of last May by 2.8 mms and 0.83 mms respectively. Total actual sunshine duration was 23.4 hours below the corresponding value on May 1965.

TAHRIR—MAY 1966

This month was slightly warmer and less dry when compared with May 1965. Mean daily air temperature at 2 metres height above ground level was 0.7 °C above the corresponding value of last May. Mean daily relative humidity and mean daily vapour pressure were higher than the corresponding values of last May by 2% and 1.0 mms, respectively.

The month was characterised by three marked heat waves with peaks on 12, 18 and 31st. No significant weather phenomena occurred all over the month except for rain drops on the 1st and on 20 to 22nd mm inclusive. The last wave was the most intense and the most important regarding the occurrence of extreme values. On 31 was recorded the highest day time mean and daily mean air temperatures, also the highest maximum and highest minimum air temperatures, the lowest daily evaporation from Piche and pan «A». Also the extreme maximum soil temperatures down to one metre occurred on that day.

The extreme maxima of soil temperature at depths down to 20 cms were higher than the corresponding values of last May, deviations lay between 2.8 °C to 0.6, while at half and one metre they were less by 0.3 °C and 0.5°C respectively. The extreme minima were all the way down higher by 3.5 °C to 1.0 °C.

Mean daily wind speed at 2 metres was 0.3m/sec, lower than the corresponding value of May 1965. Mean daily values of Piche and pan «A» evaporation were lower by 2.0 mms and 0.35 mms respectively than the corresponding values of last May. Total actual sunshine duration was 37.3 hours below the corresponding value of May 1965.

GIZA—MAY 1966

This month was generally mild. Mean daily air temperature at 2 metres height above ground level was 0.1°C above normal, while mean daily relative humidity was the same as the normal value. No significant weather phenomena occurred all over the month except for some rising dust on 18th and rain drops on 19th, 21st.

The month was characterised by three heat waves, with peaks on 12 ; 18 for the first 2 waves, while the last one had its peak on the second of June. The first wave yielded on the 12th the extreme minimum relative humidity of the month. The 2nd wave gave rise on 18th to the extreme maximum air temperature, and gave rise also to the highest evaporation values from Piche and pan «A».

The extreme maxima of soil temperature were lower than the corresponding values of last May, except for the depths 5 and 10 cms. where the maxima were more by 2.8°C and 1.3°C respectively ; deviations varied between 9.1°C and 0.1°C . The extreme minima of soil temperature were exclusively higher than the corresponding values of last May by 5.0°C to 0.4°C .

Mean daily wind speed at 2 metres was 0.2 m/Sec. more than the average. Mean Piche evaporation was 0.4 mm below the average while that of Pan «A» was higher by 0.05 mms. Mean daily potential evapotranspiration was 0.9 mm lower than the corresponding value of last year. Total actual sunshine duration was below average by 18 hours or 4% if possible duration.

KHARGA—MAY 1966

This month was warmer and more rainy than normal. Mean daily air temperature at 2 metres height above ground level and total rainfall were above normal by 1.3°C and 0.9 mm respectively.

The month was characterised by a prolonged excessive heat wave between the 9th to the 21st of the month with its peak on the 18th when the absolute maximum air temperature was recorded. The heat wave was followed by a cold spell in the period 22nd to 29th.

The extreme maxima of soil temperatures at depths down to 10 cms. were lower than the corresponding values of last May and the deviations varied between -7.0°C to -1.2°C . Maximum value of depth 20 cms. was the same as that of last year, while for 50 cms. depth and 100 cms. depth, the maxima values were higher than the corresponding values of May 1965 by 0.6°C and 0.5°C respectively. The extreme minima of soil temperatures at all depths were higher than the corresponding values of last May and the deviations lay between 0.2°C to 2.9°C .

Mean daily wind speed at 2 metres above ground was 1.3 m/sec. higher the corresponding value of May 1965. Mean daily Piche and pan «A» evaporation were higher than the corresponding values of last May by 8.5 mms. and 3.44 mms. respectively. Total actual sunshine duration was 26.2 hours more than the corresponding value of May 1965.

**TABLE C 1.—AIR TEMPERATURE AT 2 METRES ABOVE GROUND
MAY — 1966**

STATION	Air Temperature (°C)					Mean Duration in hours of daily air temperature above the following values											
	Mean Max.	Mean Min.	Mean of the day	Night time maan	Day time mean	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	
El Kasr	24.4	14.2	19.5	17.7	21.8	24.0	24.0	24.0	23.9	21.7	11.3	1.5	0.3	0.1	0.0	0.0	
Tahrir	31.5	15.3	23.0	19.2	25.7	24.0	24.0	24.0	24.0	23.0	15.3	8.7	3.3	0.6	0.0	0.0	
Giza	31.7	16.4	24.0	21.2	26.1	24.0	24.0	24.0	24.0	23.0	15.1	9.4	2.7	0.6	0.0	0.0	
Kharga	37.6	22.6	30.4	27.6	32.6	24.0	24.0	24.0	24.0	24.0	23.8	19.5	12.0	5.1	1.4	0.0	

**TABLE C 2.—ABSOLUTE VALUES OF AIR TEMPERATURE AT 2 METRES ABOVE GROUND
ABSOLUTE MINIMUM AIR TEMPERATURE AT 5cms ABOVE GROUND
OVER DIFFERENT FIELDS**

MAY — 1966

STATION	Max. Temp. at 2 metres (°C)				Min. Temp. at 2 metres (°C)				Min. Temp. at 5 cms. above (°C)			
	Highest		Lowest		Highest		Lowest		Dry soil		Grass	
	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date	Value	Date
El Kaer	37.8	30th	21.2	2,3nd,rd	17.9	15sh	8.2	10th	4.7	10th	—	—
Tahrir	40.3	31 st	26.7	23rd	20.2	31 st	11.0	8th	9.2	8th	—	—
Giza	42.6	18th	25.9	23rd	20.7	19th	11.9	9th	7.4	9th	9.3	9th
Kharga	46.0	18th	29.1	25th	28.9	19th	13.4	8th	10.7	8th	—	—

**TABLE C 3.—(SOLAR + SKY) RADIATION, DURATION OF BRIGHT SUNSHINE HUMIDITY,
VAPOUR PRESSURE AT 2 METRES EVAPORATION & RAINFALL**

MAY — 1966

STATION	(Solar+Sky) Radiation gm. cal/cm²	Duration of Bright Sunshine (hours)			Relative Humidity %						Vapour pressure (mms)						Evaporation(mms)		Rainfall (mms)		
		Total Actual monthly	Total Possible monthly	%	Duration in hours		Mean of day	1200 U.T.	Lowest	Date	Mean of day	1200 UT	Highest	Date	Lowest	Date	Piche	Pan class A	Total Amount Monthly	Max. Fall in one day	DATE
					✓ 90%	✓ 80%															
El Kaer.	534.5	336.5	425.9	79	—	—	74	66	40	8	13.5	14.1	18.9	31	6.7	30	9.4	8.75	0.0	0.0	—
Tahrir .	527.8	337.7	424.6	80	1.6	5.6	57	30	14	18.31	11.0	9.1	15.7	12.18	5.5	14	15.4	10.74	Tr.	Tr.	1,20, 21,32
Giza . .	561.9	324.9	423.2	77	0.1	2.3	51	28	11	12	10.4	8.9	15.3	20	4.3	9	18.0	11.37	0.0	0.0	—
Kharga .	532.7	294.3	413.9	71	0.0	0.1	21	15	5	11	6.4	6.4	12.3	21	2.4	11	47.9	21.64	1.1	1.1	25

**TABLE C. 4.—EXTREME SOIL TEMPERATURE AT DIFFERENT DEPTHS (cms)
IN DIFFERENT FIELDS**

MAY — 1966

STATION	Highest (H) Lowest (L)	Extreme soil temperature (°C) in dry field at different depths (cms.)										Extreme soil temperature (°C) in grass field at different depths (cms.)									
		0.3	1	2	5	10	20	50	100	200	300	0.3	1	2	5	10	20	50	100	200	300
El Kasr	H	55.0	46.3	45.0	39.0	33.3	28.0	24.7	22.8	21.2	—	—	—	—	—	—	—	—	—	—	—
	L	6.6	9.7	10.3	12.9	16.5	19.9	21.5	20.8	20.1	—	—	—	—	—	—	—	—	—	—	—
Tahrir	H	58.4	56.3	51.0	48.3	42.2	34.8	30.1	27.2	25.1	24.0	—	—	—	—	—	—	—	—	—	—
	L	13.4	14.7	14.4	18.1	21.2	24.6	26.0	25.2	23.1	22.3	—	—	—	—	—	—	—	—	—	—
Giza	H	62.4	57.6	55.7	44.6	37.2	31.3	29.1	27.0	24.6	23.9	36.5	32.7	30.5	28.5	26.8	24.7	23.2	21.9	21.0	—
	L	13.6	15.0	15.6	20.3	24.6	27.2	27.0	25.0	23.1	23.4	14.1	14.2	14.4	17.8	19.5	21.4	21.4	20.1	19.7	—
Kharga	H	—	—	52.7	49.0	40.8	36.0	33.1	30.0	27.7	26.9	—	—	—	—	—	—	—	—	—	—
	L	—	—	18.4	21.3	25.2	28.3	29.4	27.4	25.8	26.0	—	—	—	—	—	—	—	—	—	—

TABLE C 5.—SURFACE WIND

MAY — 1966

STATION	Wind Speed m/sec at 2 metres			Days with surface wind speed at 10 metres							Max. Gust (knots) at 10 metres	
	Mean of the day	Night time mean	Day time mean	≥10 knots	≥15 knots	≥20 knots	≥25 knots	≥30 knots	≥35 knots	≥40 knots	value	Date
El Kasr . . .	3.2	2.4	4.2	—	—	—	—	—	—	—	—	—
Tahrir	2.9	2.4	3.7	31	21	5	2	0	0	0	34	18
Giza	3.0	2.7	3.5	31	20	2	0	0	0	0	33	18
Kharga	5.4	4.7	6.4	30	28	17	9	3	1	0	39	24

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